Submitting High Quality eCTD Submissions to FDA/OGD

GPhA/FDA ANDA Labeling Workshop/ USP

User Forum

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FDA Disclaimer

 Views expressed in this presentation are those of the speaker and not necessarily of the Food and Drug Administration

Agenda

- eCTD General Information & Advice
 - The Most Efficient Way to submit to FDA
 - Always Check before Submitting
- Formatting issues
 - Bookmarks, Hypertext links, Document formatting
 - Study Tagging Files (STFs)
 - Document Table of Contents (TOCs)
 - eCTD Placement and Leaf Titles
 - eCTD Operator Attributes
 - Granularity
- Final Take Away Message
- References
- Contact Information

eCTD: Electronic Common Technical Document

- –eCTD is the standard electronic format for submissions to CBER and CDER
- eCTD format will be required in several years pending publication of final Guidance
- Reviewers want well formatted eCTD submissions
- Establishing standards helps increase efficiency!

Getting Started with eCTD

- Submit an eCTD sample for valuable feedback
- -Transition existing applications to eCTD
- Become familiar with the information on the eCTD website and stay informed
- -Send your eCTD questions to esub@fda.hhs.gov

eCTD: General Information & Advice

- Don't send additional paper copies when sending eCTD submissions
- Don't send files that aren't allowed (i.e., .zip, .exe, etc.)
- For submissions sent to the Central Document Room:
 - Refer to Transmission Specifications
 - Send media to the correct address
 - Ensure your media isn't blank or only contains empty folders

eCTD: General Information & Advice

- Once an eCTD always an eCTD means don't send non-eCTD or paper to an eCTD application
- Don't send files outside the eCTD sequence folder
- Don't send files that are not referenced in the correct, appropriate eCTD backbone (index.xml, us-regional.xml, stf.xml)
- Use the ANDA checklist to ensure the submission is complete
 - ➢ It's acceptable to provide an ANDA checklist indicating your submission's content
 - ➤ Providing reference links from the ANDA checklist to the information is helpful

The Most Efficient Way to Submit to FDA

- Use eCTD format
- Send via the Electronic Submissions Gateway (ESG)
- Include the correct/appropriate FDA fillable form (356h) and use digital signatures when signing the form

Benefits:

- Quick receipt and processing by FDA
- Quick access by reviewers
- Maximizes automation, reduces manual steps, minimizes chance of delays compared to alternative ways to submit
- In general, it's faster, easier, and better!

Always Check Your Submission

- Quality check (QC) your submission prior to submitting it
- Use checklists and establish a good, efficient QC process
- Ensure the media contains the submission
 Ensure no files are truncated
 - Typically occurs when the path exceeds limits
 - Commonly occurs in m3-2-p-4 and m5-3-5-1 since some eCTD tools create folders from the metadata entered by the publisher/preparer

Create Your own Submission Checklist

San	nple Submission Format · Checklist¶		Documents- and-files-Checks ¶
Ħ	Application: 123456	1	-Are-in-there-correct-location,-if-applicable-(e.g.,-data)¶
	Drug-Product-Name-is:		Used-meaningful-leaf-titles-that-indicate-the-document's-content¶
	CoverLetter(CL)¤	1	
	Signed+DA-Form¤ 1	1	Referenced-in-correct-backbones- ¶
			☐ ·Text·is·recognizable·and·can·be·search·copied·and·pasted¶
ш.		1	Study-files-are-referenced-in-the-correct-study's-stf.xml-file-and-tagged-correctly¶
	match-or-are-within-12-days-of-each-other¤		Physically-reside-in-the-correct-location-(i.e.,-stf.xml-in-the-study's-folder)¶
	ANDA checklist: verified submission against the	1	Files are accessible with good-file names—no-truncated files (search-for ~ and ensure no-file names)
	checklist, included the checklist, provided links		have-~)¶
	to·information-when-possible, ≭		□ ·Documents·exceeding·5·pages·contain·a·Table·of·Contents·(TOC) ¶
	Admin-Section-Checks (us-regional.xml) ¶	1	☐ ·Correct·Page·Rotation·was·applied·(landscape·or·portrait) ¶
	Six digit application number		■ Bookmarks-exist-and-go-to-the-correct-destination¶
	six-digit-application-number¶		□-Bookmarks-provided-according-to-TOC¶
	-four-digit-sequence-number¶		Bookmarks-have-good-meaningful-names-that-reflect-the-bookmark-destination's-content¶
	related sequence number (provide if		☐ ·Hyperlinks·provided·for·references··and·they·go·to·the·correct·destination¶
	submission is an amendment or resubmission) ¤		Hyperlinks-appear-as-blue-text-or-blue-box-links-if-blue-text-isn't-possible¶
-			Proper·lifecycle-used·on·documents·(replace,·new,·delete,·append)¤

Bookmark Issues

The following are considered bookmark issues:

- Not providing bookmarks
- Providing a few bookmarks when more are needed for navigating the document
- Providing bookmarks that don't have meaningful names (e.g., appendix 1, page 1, etc.)

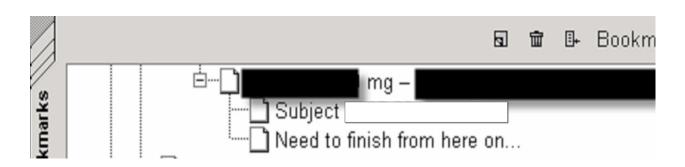
Please provide bookmarks and provide bookmarks with meaningful names!

Bookmark Issues

Good



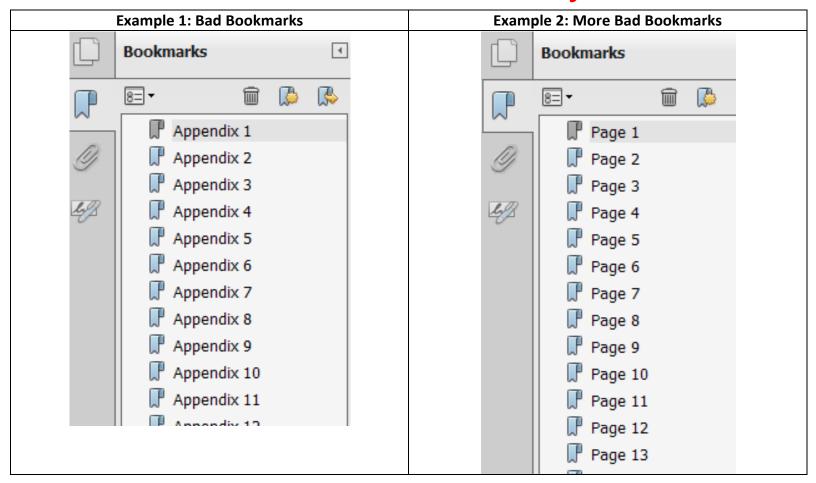
Bad



Examples of Bad Bookmarks

Bad

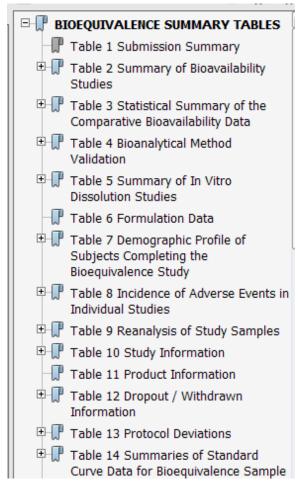
Really Bad



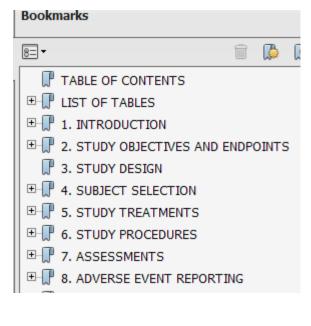
Examples of Good Bookmarks

Bioequivalence Summary

Tables in m2-7



Protocol



Case Report Form (CRF)



Bookmark Considerations

- Does the bookmark name indicate the bookmark's destination/content?
- Is the bookmark way too long?
- Are bookmarks provided for the TOC items?
- Does the bookmark match the description/title showing on the TOC?
- Will someone who is unfamiliar with the application will know what content they'll see before they click on the bookmark?
- Are bookmarks set to Inherit Zoom?
- If the answer to one or any of these questions is "no" then fix the bookmarks.

Hypertext Link Issues

- Insufficient hyperlinks (none or not enough)
- Hypertext links go to incorrect destination or don't work (destination set to same page)
- References aren't descriptive enough for a Reviewer to find the information if the link doesn't work or doesn't exist
- The Table of Contents (TOC) isn't linked
- For inter-document links, it's preferred that the link opens the other document in a new window
- Reviewers appreciate links instead of searching for a reference (table, figure, document, section, etc.)

Hypertext Link Recommendations

Provide linked references in documents (tables, figures, images, sections, inter-document links, etc.)

- Provide clear, concise references.
- 2. Use blue text links (preferred) or blue box links
- Providing linked references from the cover letter, Reviewers Guide or ANDA checklist is helpful
- 4. Provide linked TOCs in documents
- Set links to Inherit Zoom
- 6. Check your links before submitting

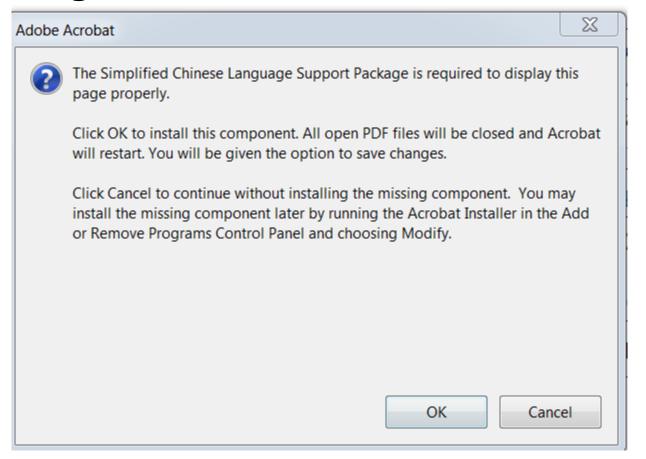
Document Recommendations

Provide:

- Correct page rotation (landscape or portrait)
- Use fonts 9 pt. Times New Roman or larger
- Legible documents- Adding a header or other information to a scanned document shouldn't affect or impact reviewability of the material Documents with recognizable text for ease of copying and pasting
- Paginate documents
- Only use embedded fonts recommended in the PDF Specification

Document Font Error

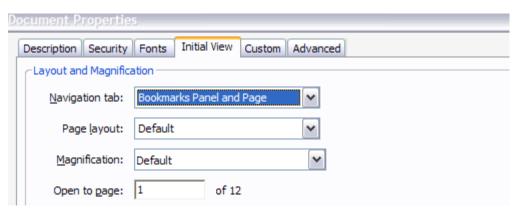
Avoid font errors to avoid resubmitting or replacing documents



Document Settings

Initial View Settings for PDFs:

- Navigation tab set to open to bookmarks, panel and page
- Page Layout set to default
- Magnification should be set default



STFs Are Required For Studies

- Providing an STF for each study is necessary
- Applying correct study tagging files to each of the study's documents/files is necessary
- Please do it right the first time and every time thereafter
- Trying to correct or fix this issue can get very messy and it isn't quick or easy
- The study ID and study title shouldn't be the same – the title is usually much longer

STF.xml Files Organize Study Information

Bad Example- Failed to use an STF.xml and study tags	Good Example: Used an stf.xml for the study and
	applied study tags to the study's files
5.2. Tabular Listing of all Clinical Studies 5.3.1. Reports of Biopharmaceutic Studies 5.3.1.2. Comparative BA and Bioequivalence (BE) 5.3.1.2. NA - NA Unassigned Study Blank CRF Study ADJ xpt Study CORR xpt Study RAW xpt Study Appendices TOC Study Appendix-16-1-1 Study Appendix-16-1-10 Study Appendix-16-1-12 Study Appendix-16-1-12 Study Appendix-16-1-2 Study Appendix-16-1-3 Appendix-16-1-3 Study Appendix-16-1-4 Study Appendix-16-1-5 Study Appendix-16-1-5 Study Appendix-16-1-5 Study Appendix-16-1-6 Study Appendix-16-1-7 Study Appendix-16-1-7 Study Appendix-16-1-8	5.3.1.2. A Single Exposure Study to Evaluate Synopsis The synopsis Study Report Body Protocol or Amendment Sample Case Report Form EC IRB Consent Form List Signatures Investigator Site Signatures Investigators List Patients With Batches Audit Certificates Report Audit Certificates Report Audit Certificates Report Publications Based on Study Publications Based on Study Publications Referenced in Report Discontinued Patients Protocol Deviations Patients Excluded from Efficacy Analysis Patients Excluded from Efficacy Analysis Demographic Data Compliance and Drug Concentration Data Individual Efficacy Response Data Adverse Event Listings Listing Individual Laboratory Measurements by Patient

Recap STF Issues

Issues:

- No STFs used for study documents and files
- STF used for only some (not all) of a study's files/documents (example: only used for CRFs) and/or doesn't include study tags

Solutions:

- Ensure an STF is provided for each study and is placed in the study's main folder.
- Reference every study file in its respective STF.xml file and ensure a valid, correct study tag is applied to every study's documents/files.

eCTD Placement and TOCs in Documents

- Issue: Incorrect placement of information
- Solution: Refer to the eCTD CTOC and ANDA checklist
 - Review your submission using and checking navigation via leafs in the eCTD tree to ensure leafs are referenced in their respective, proper eCTD locations
- Issues: No TOC and/or no bookmarks provided for TOC items
- **Solution:** Provide TOC for documents exceeding 5 pages that contain multiple headings/sections, tables, figures and provide bookmarks according to the TOC.

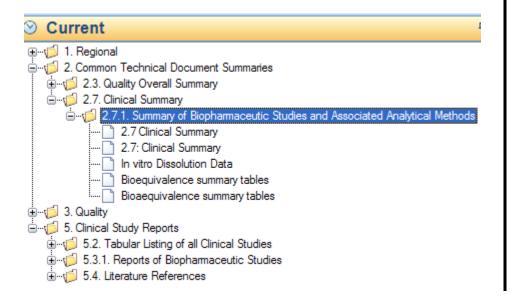
Leaf Title Issues

- **Issue:** Poor/bad leaf titles (i.e., Appendix 1.pdf, leaf title is only short file name instead of a descriptive, longer leaf title that indicates the document's content)
 - Is the leaf title indicative of the document's content?
 - Will someone who isn't familiar with the application know what the document is from the leaf title only without having to open the document?
 - Do the leaf titles exactly match the file name with .pdf in the leaf title?
- **Solution:** If the answer to the first two questions above is no or the answer to the third question is "yes", you should fix/correct the leaf titles.

Leaf Title Issues

Issue: Same exact title used for multiple leaves

Solution: Include the file extension or type of application (MS Word) for non-PDF leafs



Issue: Provided one tabular listing for each study which resulted in multiple current tabular listings

Solution: Provide one PDF that includes a tabular listing of all studies

Current		
⊕		
⊕ 2. Common Techni	cal Document Summaries	
±√ 3. Quality		
5. Clinical Study Re	eports	
	sting of all Clinical Studies	
Study	Tabular Listing	
Study i	Tabular Listing	
⊕	of Biopharmaceutic Studies	

Operator Attribute Issues

- **Issue:** Incorrect use of eCTD operator attributes (i.e., fail to use/apply the replace operator resulting in multiple version of the same document when there should only be one current version)
 - Is there only one current version?
 - Will the reviewer expect to see and know why there are multiple current versions?
 - Will Reviewers know the difference between each current version from the leaf title?
- **Solution:** If the answer is "no", you're probably not using eCTD operator attributes correctly or you need to use leaf titles or another method to indicate the difference for the multiple current versions of a document.

ANDA Summary Bioequivalence Data

- Summary tables belong in m2-7
 - Below is the link to the summary bioequivalence data table web page:
 http://www.fda.gov/Drugs/DevelopmentApprovalProcess/HowDrugsareDevelopedandApproved/ApprovalApplications/AbbreviatedNewDrugApplicationANDAGenerics/ucm120962.htm
- SAS / XPT data belongs in M5-3-1 referenced and tagged in the appropriate study's STF file

Table	Name of Summary Data Table	Corresponding Module in eCTD	Corresponding Folder in eCTD	Corresponding Module/Section in pap CTD
1	Submission Summary	m2	27-clin-Sum	2.7.1.1 Background and Overview
2	Summary of Bioavailability (BA) Studies	m2	27-clin-Sum	2.7.1.3 Comparison and Analysis of Results Across Studies
3	Statistical Summary of the Comparative BA Data	m2	27-clin-Sum	2.7.1.3 Comparison and Analysis of Results Across Studies
4	Bioanalytical Method Validation	m2	27-clin-Sum	2.7.1.1 Background and Overview
5	Summary of In Vitro Dissolution	m2	27-clin-Sum	2.7.1.2 Summary of Results of Individual Studies
6	Formulation Data	m2	27-clin-Sum	2.7.1.1 Background and Overview
7	Demographic Profile of Subjects Completing the Bioequivalence Study	m2	27-clin-Sum	2.7.4.1.3 Demographic and Other Characteristics of Stud Population
8	Incidence of Adverse Events in Individual Studies	m2	27-clin-Sum	2.7.4.2.1.1 Common Adverse Events
9	Reanalysis of Study Samples	m2	27-clin-Sum	2.7.1.2 Summary of Results of Individual Studies
10	Study Information	m2	27-clin-Sum	2.7.1.1 Background and Overview
11	Product Information	m2	27-clin-Sum	2.7.1.1 Background and Overview
12	Dropout Information	m2	27-clin-Sum	2.7.1.2 Summary of Results of Individual Studies
13	Protocol Deviation	m2	27-clin-Sum	2.7.1.2 Summary of Results of Individual Studies
14	Summary of Standard Curve and QC Data for Bioequivalence Sample Analysis	m2	27-clin-Sum	2.7.1.2 Summary of Results of Individual Studies
15	SOPs Dealing with Bioanalytical Repeats of Study Samples	m2	27-clin-Sum	2.7.1.4 Appendix
16	Composition of Meal Used in Fed Bioequivalence Study	m2	27-clin-Sum	2.7.1.3 Comparison and Analysis of Results Across Studies

Document Granularity Issues

- Issue: You are providing many one page bioequivalence summary table documents when it would probably be more efficient for a reviewer to have one document with a TOC, bookmarks and links
- Solution: If it makes sense to combine one and two page documents into a single document in an eCTD section, then do it and provide a linked TOC with bookmarks.

The Final Take Away

Consider Your Audience: If you were the Reviewer and you are not familiar with the submission and application, could you easily navigate the submission and do an efficient review?

- Perform an overall QC after compiling the submission.
- Navigate the submission using eCTD TOC tree, leaf titles, links, and bookmarks keeping the reviewer in mind.
- Use a QC process or checklist to help ensure submissions don't contain formatting issues.
- Good planning and being proactive can help you avoid the need to respond to queries, send resubmissions, and send additional corrective submissions to fix formatting issues!

References

eCTD web page:

http://www.fda.gov/Drugs/DevelopmentApprovalProcess/FormsSubmissionRequirements/ElectronicSubmissions/ucm153574.htm

eCTD CTOC (eCTD Table of Contents Headings and Hierarchy):

http://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/FormsSubmissionRequirements/ElectronicSubmissions/UCM315023.pdf

PDF Specifications

http://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/FormsSubmission Requirements/ElectronicSubmissions/UCM163565.pdf

OGD web page:

http://www.fda.gov/Drugs/DevelopmentApprovalProcess/HowDrugsareDevelopedandApproved/ApprovalApplications/AbbreviatedNewDrugApplicationANDAGenerics/default.htm

ANDA Check List:

http://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/HowDrugsare DevelopedandApproved/ApprovalApplications/AbbreviatedNewDrugApplicationAN DAGenerics/UCM151259.pdf

Contact Information

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